DESIGN EXCEPTION REPORT

ATTACHMENT A
CONTROLLING CRITERIA

City/Town: _____   **Project File No.:** _____

Design Speed

 Refer to Highway Design Manual (HDM), Table 3.6.
  Desirable _____
  Minimum _____
  Posted _____
  Proposed _____
 ☐ Design Exception Required.

Lane Width

 Refer to HDM Table 5.1.
  Desirable _____
  Minimum _____
  Proposed _____
 ☐ Design Exception Required.

Shoulder Width

 Refer to HDM Table 5.1 (See Note 3).

Right		**Left**	
Desirable	_____	Desirable	_____
Minimum	_____	Minimum	_____
Proposed	_____	Proposed	_____
☐ Design Exception Required.		☐ Design Exception Required.	

Horizontal Alignment

 Refer to HDM Table 4.2 (Minimum Radius).
  Minimum _____
  Proposed _____

PI Sta.	_____	PI Sta.	_____	PI Sta.	_____	PI Sta.	_____
Radius	_____	Radius	_____	Radius	_____	Radius	_____

 ☐ Design Exception Required.

 Refer to HDM Section 4.1.1.2 (Compound Curves).
  Check all compound curves. The radius of the flatter curve must be at least 50%
  greater than that of the sharper curve.
 ☐ Design Exception Required.

DESIGN EXCEPTION REPORT

ATTACHMENT A
CONTROLLING CRITERIA

City/Town: _____   **Project File No.:** _____

(Horizontal Alignment cont'd)

Length of Curve.
  Lmin = 30 V (freeways)
  Lmin = 15 V (other major highways)
  V = Design Speed
☐ Design Exception Required.

Vertical Alignment

Refer to HDM Table 4.4 (Crest Vertical Curves) K.
  Minimum _____
  Proposed _____
  PVI Sta. _____   PVI Sta. _____   PVI Sta. _____   PVI Sta. _____
  K _____   K _____   K _____   K _____
☐ Design Exception Required.

Refer to HDM Table 4.5 (Sag Vertical Curves) K.
  Minimum _____
  Proposed _____
  PVI Sta. _____   PVI Sta. _____   PVI Sta. _____   PVI Sta. _____
  K _____   K _____   K _____   K _____
☐ Design Exception Required.

Grades

Refer to HDM Table 4.3.
  Maximum _____
  Proposed _____
☐ Design Exception Required.

Stopping Sight Distance

Refer to HDM Table 3.9.
  Minimum _____
  Desirable _____
  Proposed _____
☐ Design Exception Required.

DESIGN EXCEPTION REPORT

ATTACHMENT A
CONTROLLING CRITERIA

City/Town: _____   **Project File No.:** _____

(Stopping Sight Distance cont'd)

      Refer to HDM Figure 4.6 and Figure 4.7 (Stopping Sight Distance Middle Ordinate).
         Minimum   _____
         Desirable   _____
      ☐ Design Exception Required.

Cross Slope
      Refer to HDM Section 5.1.5.
         Bit Conc.   0.020
         Cem Conc.   0.016
         Proposed   _____
      ☐ Design Exception Required.

Superelevation
      Refer to HDM Section 4.3. Check required values for superelevation rates,
      transitioning, runoff, banking, etc. for all lanes and shoulders.
      ☐ Design Exception Required.

Horizontal Clearance
      Refer to AASHTO A Policy on Geometric Design of Highways and Streets, page 322.
      Minimum 18 inches beyond face of curb.
      ☐ Design Exception Required.

Bridge Only Criteria

Lane and Shoulder Width
      Refer to AASHTO A Policy on Geometric Design of Highways and Streets, page 390.
      ☐ Design Exception Required.

Structural Capacity
      Refer to Chapter 3 of MassHighway Bridge Manual.
      ☐ Design Exception Required.

Vertical Clearance
      Refer to HDM Table 4.6.
         Minimum   _____
         Proposed   _____
      ☐ Design Exception Required.